Transportation Packaging Quick Facts

National Transportation Program

Cask: GNS-16

Manufacturer: GNS Gesellschaft für Nuklear-Service GmbH

Certification: German Certificate – D/4326/B(U)F-85, Revision 0 (expires May 31, 2001)
U.S. Certificate – USA/0551/B(U)F-85, Revision 1 (expires May 31, 2001)

General Description:

Packaging Type: B(U)
Gross Weight: 33,600 pounds (15,241 kilograms) loaded
Overall Dimensions: Height 60.4 inches (153.5 centimeters), [including impact limiters - 81.7 inches (208 centimeters)], Diameter 47.6 inches (120 centimeters), [including impact limiters - 70.9 inches (180 centimeters)]

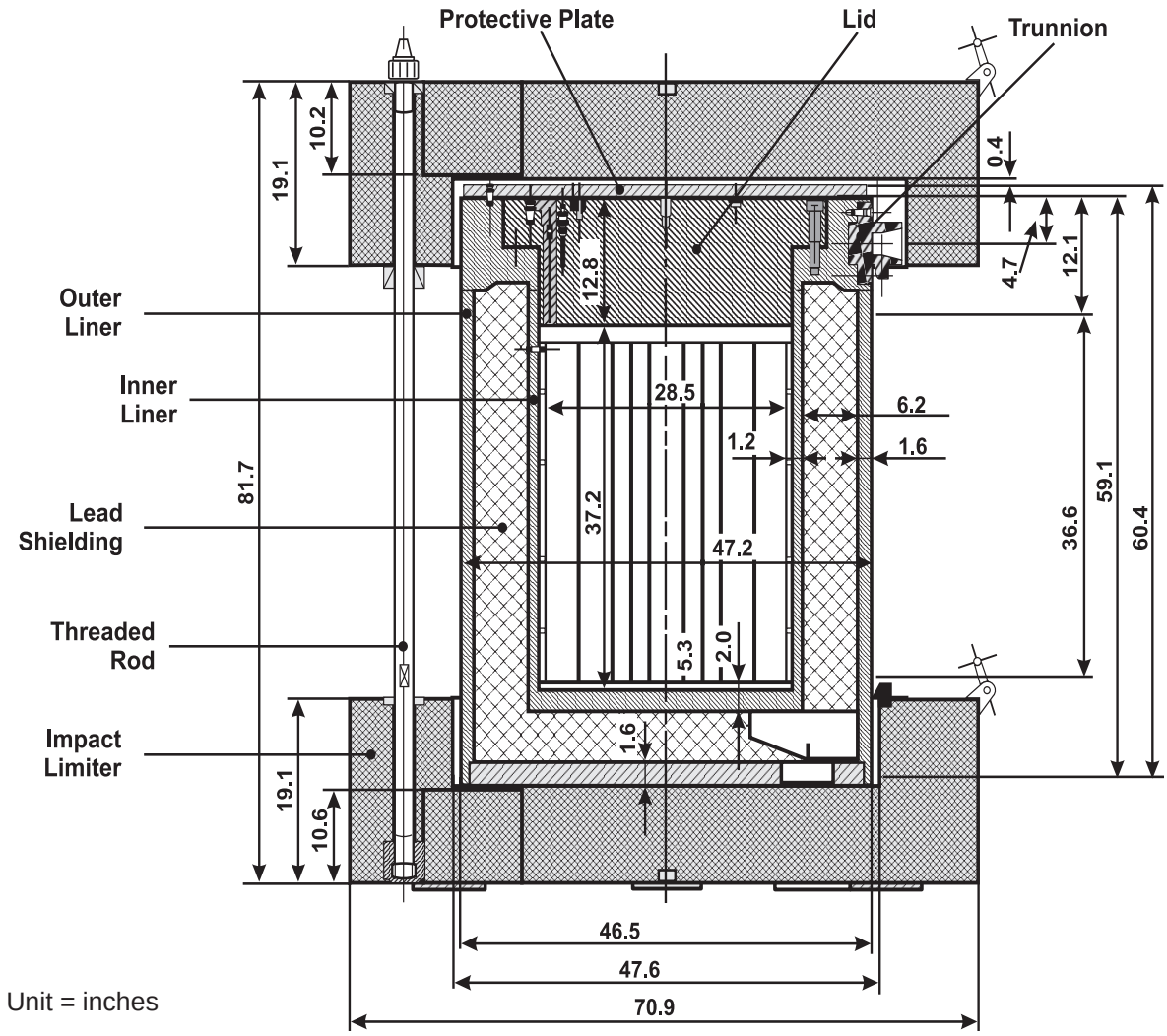
Mode of Transport: Truck/Rail

Use: The GNS-16 cask consists of a cylindrical container body produced in sandwich design. The top of the shaft opening is sealed leak tight by the primary lid with its bolted joints and elastomer seals. Above the primary lid, there is a protective plate with bolted joint. The container body consists of the component's inner liner with welded stainless-steel bottom, outer wall with welded bottom plate, and the head ring, to which the inner liner and outer wall are welded. The space between the inner liner and the outer wall is filled with lead. The GNS-16 currently is authorized for transport of the following types of spent nuclear fuel: box-shaped material test reactor (MTR) fuel; tubular MTR; and cylindrical Training, Research, Isotope production, General Atomics (TRIGA) fuel. Two GNS-16 casks are available for use.

Frequency of Use: Approximately 2 shipments per year in the U.S.

Loading Process: Wet immersion or dry, using the dry transfer system

Owner: Nuclear Cargo and Services
Hanau, Germany



GNS-16 Shipping Cask

Additional information on DOE's National Transportation Program may be obtained from:

National Transportation Program
U.S. Department of Energy
Albuquerque Operations Office
P.O. Box 5400, MS SC-5
Albuquerque, NM 87185-5400

Phone: 505-845-6134
Fax: 505-845-5508

Website:
http://www.ntp.doe.gov/

DOE Center for Environmental
Management Information
P.O. Box 23769
Washington, DC 20026-3769

1-800-7EM-DATA
1-800-736-3282

Website:
http://www.em.doe.gov/

Transportation Resource Exchange Center
ATR Institute
University of New Mexico
1001 University Blvd., SE
Albuquerque, NM 87106-4342

Phone: 1-877-287-TREX (8739)
Fax: 505-246-6001
email: trex@unm.edu

Website:
http://www.unm.edu/ ~ trex

revised 4/99